## Appendix E

Hydrology Analysis

## Robert Bein, William Frost & Associates

PROFESSIONAL ENGINEERS, PLANNERS & SURVEYORS

## MEMORANDUM

To:

Andi Culbertson, CAA

JN 32862

From:

Bob Kallenbaugh, RBF

Date:

August 14, 1996

Subject:

Musick Facility Expansion

The following paragraph can be used for your hydrology section in your EIR.

Approximately 20-acres of the existing 100-acre Musick Facility are covered by impervious surface. The Facility expansion contemplates approximately 55 acres of impervious surface. Previous hydrology studies for downstream storm drain systems have assumed a "commercial" land use for the site. The expanded facility land coverage is still below that considered for a "commercial" land use. Therefore, the drainage facilities offsite will be able to handle the approximate 15% increase of site runoff that could be expected.

Approximately 36 acres of the Musick Facility site are tributary to a storm drain at the southerly corner of the site, which flows into a drain in Parker Avenue and eventually to Serrano Creek (O.C. Facility No. F19). The remaining 64 acres of the site are tributary to Borrego Canyon Wash (O.C. Facility No. F20). Both downstream facilities have been sized to accommodate the runoff from the Musick Facility with a "commercial" landuse assumption.

Please call if you need any additional information.

BK/cjo:hydparag

Professional Service Glago C. A.